

A. I. A. File No. 25 B 24

# ARCO METAL PROTECTIVE PAINTS



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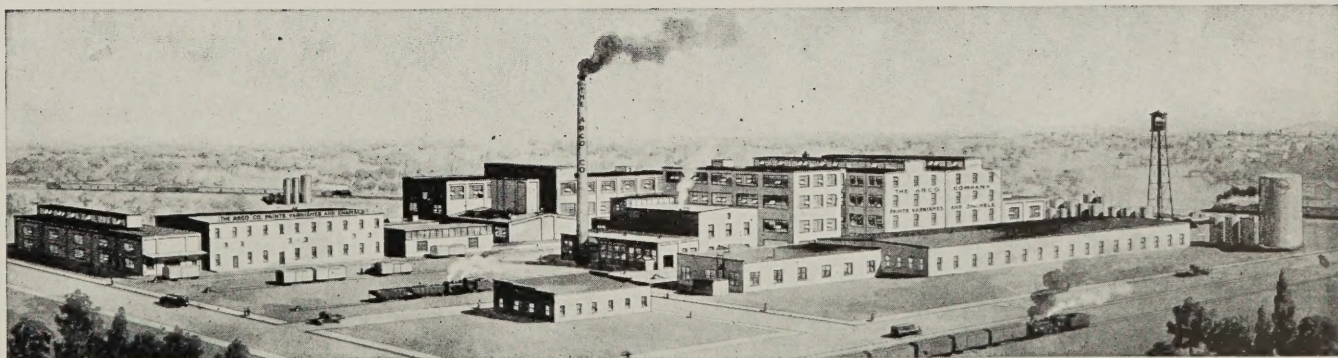


**T**HERE are two fundamental requisites of manufacture which define true, basic paint values. The first demands high quality formulation. The second requires suitability of formulation to meet existing conditions of service and exposure.

When paint making fails to give due recognition to these factors, the buyer pays the high price of guesswork and experiment—the burden of cost for frequent repaintings.

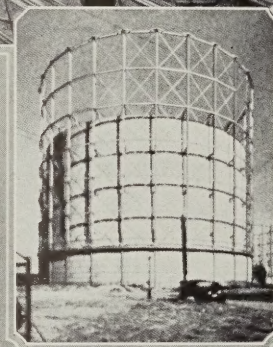
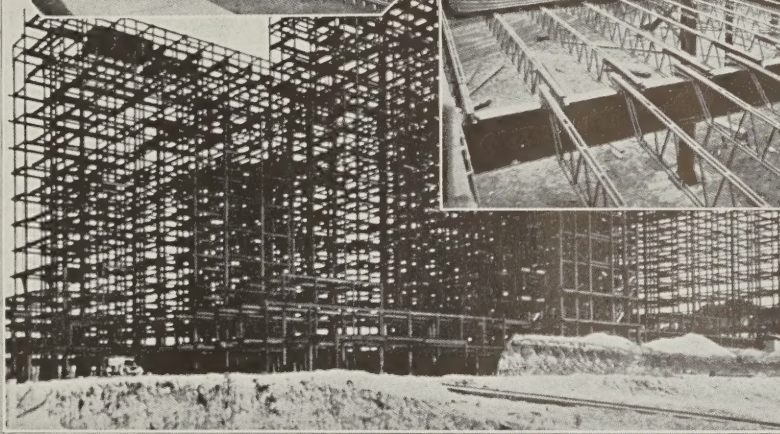
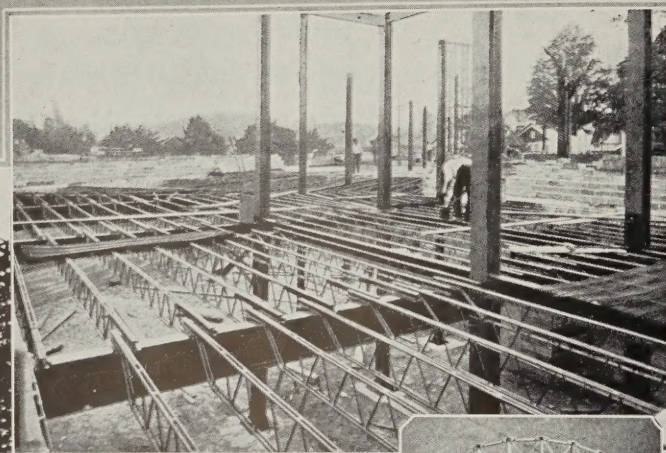
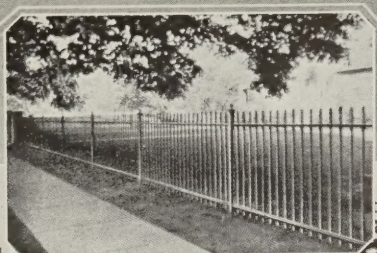
The requirements for priming and finish coats—for color and service are many and varied. There are definite reasons why each type of metal protective paint is formulated to meet a specific service, under normal or abnormal conditions.

The facilities of Arco laboratories and factories are not excelled in the industry. Years of experience in successfully meeting the most exacting and technical requirements of paint usage—scientific laboratory research—definite knowledge of the relative value of pigments and vehicles, combined with service proved quality and suitability, are responsible for the wide acceptance of Arco products.

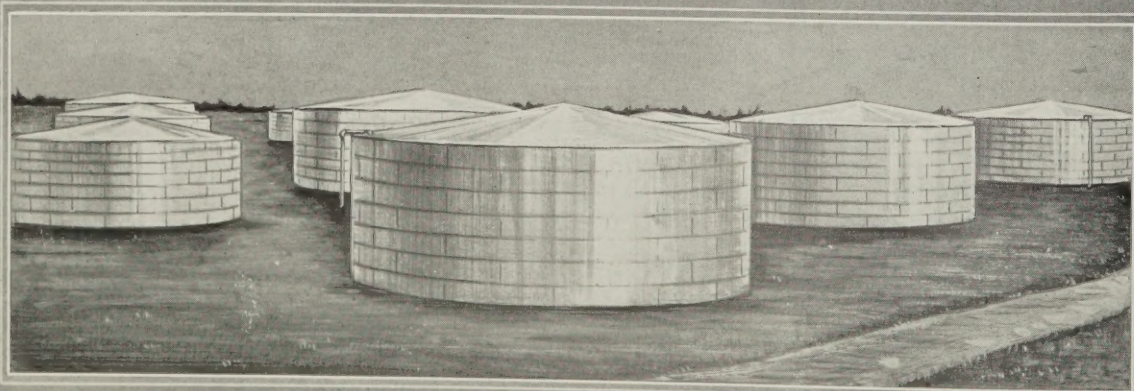
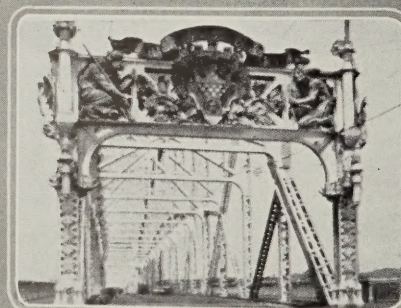
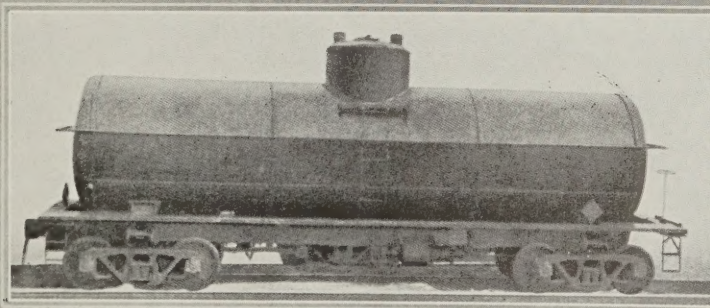
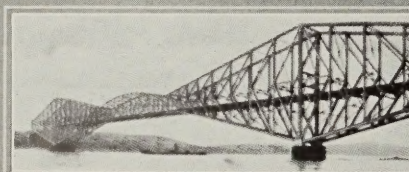


THE ARCO FACTORIES AND LABORATORIES, Cleveland, Ohio.  
West Coast Factory—Los Angeles, Calif.





**ARCO**  
Metal Coatings  
preserve and protect  
all Metal Surfaces.





## ARCO'S SERVICE TO INDUSTRY IN THE PROTECTION OF METAL

**A**rco serves industry direct with a broad line of paints and finishes for plant and building maintenance, for new construction, and for industrial finishing.

With definite knowledge of service requirements gained through 50 years' experience in serving industry—with direct consumer contact through a large force of technically-trained representatives, the buyer's needs for the job at hand are intimately known.

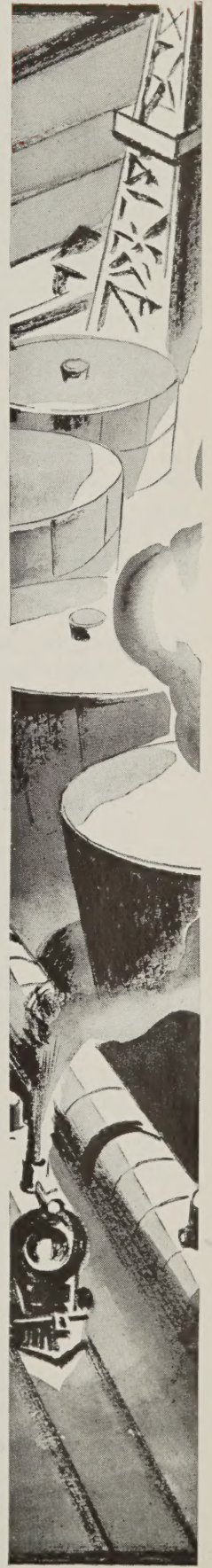
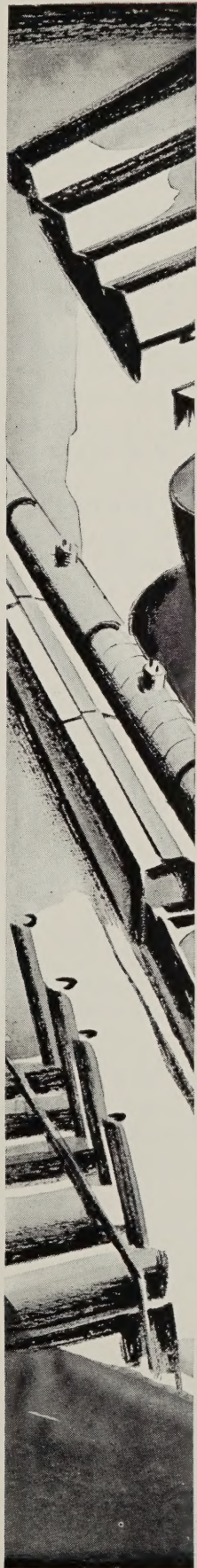
The protection of metal is industry's chief maintenance problem. The forces of nature—the elements—never relinquish their attack, with the result that the progress of deterioration is rapid without adequate paint protection. Even under normal weather exposure, metal is much more susceptible to deterioration than wood and masonry surfaces. Abnormal conditions of exposure, such as excessive moisture, acid fumes and other destructive agents which prevail in industrial centers, stimulate corrosive attack on metal and steel structures.

There is no "all purpose" metal protective paint. If industrial requirements are to be served intelligently, the paint manufacturer must be fortified with a product presentation embracing a broad range of paint types to meet the varied demands of service. A particular type of paint coating may provide ideal protection under one form of exposure and be a dismal failure under another.

Arco employs the finest type of inhibitive pigments, combined with high quality vehicles. While it is true that color preference influences paint selection, there is a sound basic value which defines why this or that type of metal protective paint is best suited for the requirements of the job.

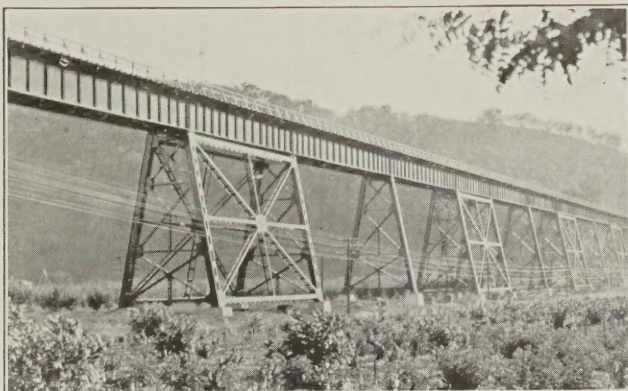
In servicing industry with metal protective coating, Arco is tied to no one raw material source of supply. The broad range of pigments employed are selected for their quality and suitability. Each product recommendation is based on its value to fit the requirements of the job in hand. Each recommendation is backed by years of proved field service.

Paint failures are not always chargeable to lack of quality. Too frequently it is the result of using the wrong paint for the job. It is in this respect that Arco offers the greatest service to industry. A service which insures to the buyer the type of paint best suited for his needs, that the result may be utmost paint satisfaction and sound economy. The buyer is not well served with less intelligent selectivity of types of metal protective coatings.





## ARCO RED LEAD AND LEAD CHROMATE PRIMERS



### RED LEAD BASE PAINTS

Red lead pigments with a rating of 95 to 97%  $Pb_3O_4$  (true lead oxide) are employed in Arco standard red lead base paints. Because of its unusual affinity for metal, plus inhibitive qualities, red lead is widely employed in the manufacture of paints for priming coats.

Red lead oxidizes rapidly under weather exposure. For this reason it is not employed in finish coats except in relatively low percentages in combination with other pigments such as carbon, graphite, iron oxide,

etc. For exposure to sulphurous and other types of fumes, red lead is not considered a stable pigment.

The pure red lead base paint for priming and intermediate coat (and finish coat in combination with low percentages of carbon or other pigments) produces an excellent protective system for structural steel exposed to water, under water, for interior of steel water tanks, steel penstocks, etc. The hardening action of red lead sets up a film with excellent water-resisting qualities for this type of service.

For protection of metal exposed to weather and service conditions existing in industrial centers, red lead is used primarily for priming coat. The chief criticism of red lead is the tendency toward brittleness of film, which does not permit of expansion and contraction with the surface on which it is applied.

Red lead in combination with reinforcing pigments produces a paint base that holds well in suspension, with improvement in the factor of specific gravity, elasticity of the paint film and brushing qualities. These points contribute toward a better paint job.

Arco red lead standards embrace pure red lead base and reinforced red lead base pigments. In this class are included No. 570 Liquidized Red Lead, No. 532 Red Lead, and No. 592 Red Lead Primer.

### LEAD CHROMATE BASE PAINTS

Lead chromate pigment is produced by chemical process. It is precipitated by a mixture of lead acetate and nitrate, and sodium bichromate in solution. It has a high rating as an inhibitive pigment. The cost per pound, however, of lead chromate is greatly in excess of red lead and other high quality, inhibitive pigments. Lead chromate is employed extensively in combination with red lead pigments, iron oxide pigments, etc.

Arco No. 395 Arcrome combines a base of basic lead chromate, red lead and iron oxide. This paint carries the excellent inhibitive qualities of each pigment, but has improved elasticity of film and greater resistance to weather and abnormal exposure conditions than is true of red lead pigment bases. Arco No. 390 Chromate Primer carries a combined base of lead chromate and iron oxide, with excellent inhibitive value.

### RED LEAD AND GRAPHITE BASE PAINTS

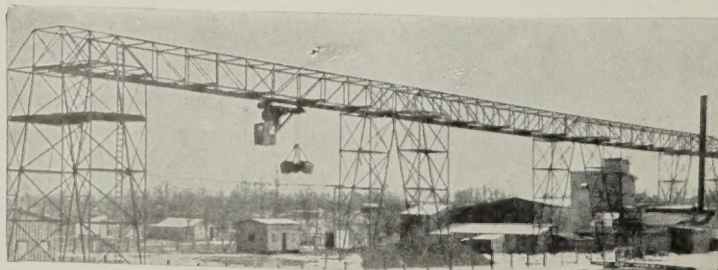
Arco No. 531 Red Lead Graphite combines two highly rated pigments—high purity red lead and silica graphite. It is a priming coat with excellent inhibitive value, producing a tough, inert film with unusual elasticity to expand and contract with the surface on which it is applied. As a priming coat it resists long periods of weather exposure prior to application of field or finish coats. Its easy brushing qualities insure a proper painting job.

## ARCO GRAPHITE PAINTS

### FOR PRIMING AND FINISH COATS

Arco Graphite Base Paints employ the natural amorphous type of silica graphite pigment. Graphite is essentially nature's form of carbon. It is an inert pigment—does not react on the vehicle and is highly resistant to abnormal exposure conditions.

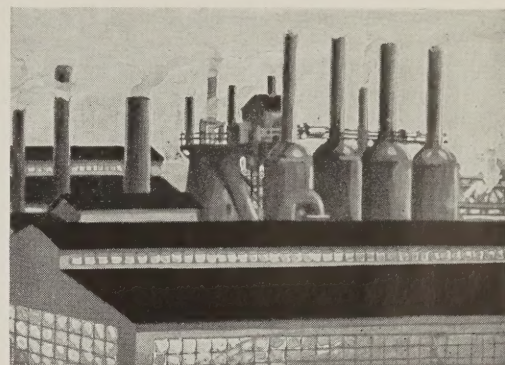
The natural form of graphite pigment was accorded a high rating for quality and durability in the well-known Atlantic City Paint Panel Tests conducted by the American Society





of Testing Materials. This type of graphite has proved over long years of service to be an inhibitive pigment of high value. It is a non-conductor of electricity. Correct grinding process insure in Arco Graphite standards uniform distribution of graphite and silica throughout the paint film. Service records prove that Arco Graphite Paints have remarkable weather resistance and retain life and elasticity over long periods.

Arco Graphite Paint No. 90 Natural Black carries a pure base of natural silica graphite. No. 50 Red and No. 70 Brown carry combined base of natural silica graphite and iron oxide. These two standards are employed largely for priming and intermediate coats, with color difference to insure full covering per coat. No. 60 Green and No. 61 Olive Green combine natural silica graphite with C. P. coloring pigments. They are used largely as finish coats, combining maximum protection with decoration.



## **ARCO IRON OXIDE BASE PAINTS FOR PRIMING AND FINISH COATS**

Iron Oxide pigments are rated in value for iron content, fineness of texture, and freedom from sulphur and other impurities. The higher range of ferric rating ( $\text{Fe}_2\text{O}_3$ ) are more suitable in their basic value than iron oxide pigments of lower iron content.

The better grade of iron oxide pigments are inert. They have unusual "tooth" for adherence to metal. They produce highly satisfactory paints when properly ground and incorporated as base pigments or in combination with silica graphite and other types of pigments. Iron oxide pigments vary in shade from bright red to dark reddish brown.

Iron Oxide pigments used in Arco standards must pass rigid laboratory specification. No. 566 Iron Oxide, No. 567 Maroon, and No. 568 Dark Iron Oxide employ Iron Oxide pigments as base. In No. 50 Red and No. 70 Brown, Arco Graphite Paints, iron oxide is combined with natural silica graphite.

## **ARCO BLUE LEAD PAINT FOR PRIMING AND FINISH COATS**

Blue lead is a fume product reduced from galena (lead sulphide) ores by smelting in furnaces in a similar manner to the process which produces sublimed white lead. Analysis of blue lead shows the higher percentage of its content as lead sulphate and lead oxide with relatively low percentages of zinc oxide and lead sulphite. The small percentage of carbon present is accounted for by contamination from fuel in the furnace and is responsible for the designation "dirty white lead" as sometimes applied to blue lead.

Blue lead enjoys a high rating as an inhibitive pigment. It is employed both as priming and finishing coat. The paint film produced is softer in texture than red lead. Blue lead does not react on the linseed oil vehicle and it is highly resistant to atmospheric gases and sulphurous fumes. It should not be used, however, for exposure to hydrogen sulphide fumes.

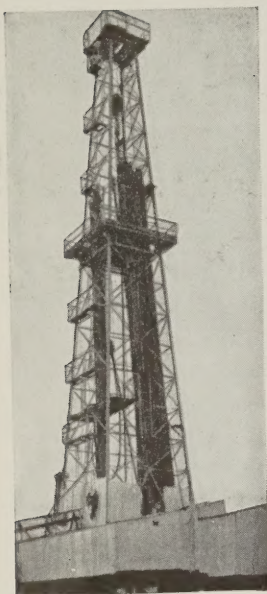
Blue lead pigment is dark bluish gray in color. Therefore it can be employed as the major portion of base only in paints in the dark blue gray shade. Arco No. 412 Blue Lead is a product of high quality employing as base the finest type of blue lead pigment.

## **GALVARCO (PORTLAND CEMENT PAINT) FOR PRIMING GALVANIZED IRON**

Galvarco carries as a base a special, fine type of Portland Cement in combination with other pigments. It is particularly designed as priming coat for new galvanized metal. Because of its unusual tooth and adherence to this type of surface, it overcomes the usual difficulties encountered in priming galvanized iron. Through precise control in formulation and manufacture Galvarco is not subject to excessive bodying with age which is a weakness of many cement base paints.



## ARCO METAL PAINTS IN COLOR FOR INTERMEDIATE AND FINISH COATS



Arco Metal Paints in color meet the demand for color and protection in the painting of structural steel and metal. They carry high grade pigment base. These colors are employed for greater visibility, for increased lighting and decorative effect.

### LEAD AND ZINC BASE PAINTS

In this class are included No. 413 Light Gray, No. 414 Steel Gray, No. 415 Silver Gray and No. 416 Battleship Gray.

These paints carry a base of white lead carbonate (corroded white lead), sublimed white lead (basic sulphate white lead) and zinc oxide, in the correct percentages to insure utmost affinity for metal and resistance to weather and industrial service exposure.

No. 605 Chrome Green carries base of C. P. Chrome Green and Yellow pigments. It combines decoration with protective qualities.

No. 575 Red Lead Moisture Proof carries a combined base of red lead, zinc oxide and natural silica graphite. It is ground in a special vehicle which gives to this product unusual moisture resisting value. It is highly suitable for both intermediate and finish coats, for piping and other surfaces subjected to condensation and unusual moisture conditions. The percentage of natural silica graphite and zinc oxide insure weather resisting value and resistance to other abnormal service conditions.

### ARCO CARBON BASE PAINTS

In this classification there are but two pigments rated for importance as paint bases. They are Carbon Black (gas black) produced from incomplete combustion of natural gas, and Lamp Black produced from incomplete combustion of oil. The former carries the higher rating of value. As a paint pigment carbon black is too soft in texture to produce a paint film of proper structural strength and hardness. It is, therefore, combined with other pigments as hardening agents. Arco standards No. 91 Carbon Black, No. 400 Black and No. 915 Handrail Black, employ gas carbon base with correct percentage of reinforcing pigments and red lead to insure proper hardness and toughness without, however, destroying elasticity of the film. No. 915 Handrail Black carries a high quality, treated varnish vehicle for utmost resistance to abrasion.

It should be noted that while carbon paints, with low percentage of pigment to vehicle, cover greater area per gallon, the resulting film of necessity is of considerable less thickness than paints employing greater percentage of pigmentation. Carbon Black paints produce a more jet black finish as compared with graphite base paint and because of the lower pigmentation, carbon paints have higher initial gloss upon application.

### ARCO STACK PAINTS

Two types of heat resisting paints are in this class. No. 92 Stack Black carries a combined base of carbon black and natural silica graphite, in a high quality pure kettle boiled linseed oil vehicle. In addition to heat resisting qualities it has excellent protective and weather resisting value. Arco Hot Surface Black is a gilsonite asphaltum. It withstands slightly higher temperatures than No. 92 but has somewhat lesser value from a standpoint of protective qualities under weather exposure.

### ARCO ASPHALTUM PAINTS

Paints in this class are known as non-pigmented coatings. They are highly suitable for finish coat on metal subjected to water exposure or unusual moisture condensation. No. 932 Gilsonite is a high quality gilsonite asphaltum combined with percentages of linseed oil and chinawood oil. This material dries to a film that is highly resistant to moisture. No. 1 Asphaltum is a straight gilsonite type. Both these paints have high heat resisting value.



## ARCO ALUMINUM PAINTS

No. 4112 Silveray is a ready mixed aluminum paint. Service records over many years have proved its high quality and suitability. It does not deteriorate with storage in the package. No. 8019 Arco Aluminum Paint employs the same type of powder as No. 4112 Silveray but is supplied in double compartment package, with pigment and vehicle in separate containers for mixing on the job. No. 8117 Diffused Aluminum is also supplied in compartment package. The aluminum pigment is a special fine bronze producing a film of unusual brilliance and greater smoothness than standard types of aluminum powder.



No. 470 Aluminum primer is a lead and zinc base priming coat for exterior work. No. 472 Interior Aluminum Primer is a high quality product for use as undercoater for aluminum paint on all interior surfaces.

## ARCO ACID RESISTING PAINTS

Arco standard acid resisting paints are developed on special formula to meet abnormal acid fume exposure. Paint standards under the headings Arco Graphite Base Paints—Arco Iron Oxide Base Paints—Arco Blue Lead Base Paint—Arco Metal Paints in Color and No. 91 Carbon Black under Arco Carbon Base Paints are supplied in acid resisting formula when identified as AR (acid resisting) following standard number, ie: No. 90 AR Natural Black—No. 70 AR Brown, etc.

### **HYDROGEN SULPHIDE FUMES**

Arco acid resisting paints listed above are also resistant to Hydrogen Sulphide Fumes with the following exceptions—Arco Metal Colors No. 413 Light Gray, No. 414 Steel Gray, No. 415 Silver Gray and No. 416 Battleship Gray. When these gray shades are desired for Hydrogen Sulphide fume exposure they should be identified as HS (hydrogen sulphide) following standard number, ie: No. 413 HS Light Gray, No. 414 HS Steel Gray, etc. Arco Blue Lead Paint should not be used for this exposure.

## ARCO METAL PAINT VEHICLES

Arco employs in its metal paint formulae highest grade pure linseed oil with only sufficient amount of Japan Drier to insure adequate drying, and a small percentage of highest grade long oil spar varnish to insure greater moisture resistance. Inasmuch as exclusion of moisture is the chief problem in metal protection, formulation of the vehicle plays a very important part in the service paint will give. In Arco Acid Resisting Formulae linseed oil vehicle is specially treated for resistance to fumes.

## ARCO TINNERS PAINTS

While general paint practice employs for cornices, gutters, downspouts, etc., the same protective coating used on metal surfaces elsewhere on the building, Arco Tinnners Paint meets the requirement for coatings in this classification.

Arco Tinnners Paint is made in Red for the highest grade tin work, and in the Imperial Line in a moderately-priced red, maroon and green, which offers a good value at an economical figure.

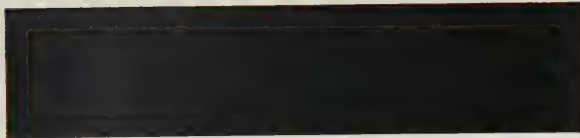


# COLOR CHART

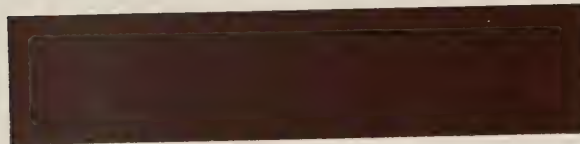
SEE SPECIFICATION TABLE PAGES H10 AND 11

## ARCO GRAPHITE PAINTS

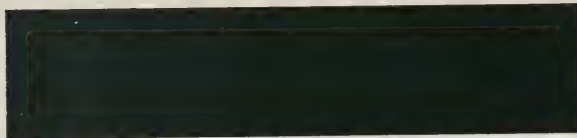
Class  
No. 4



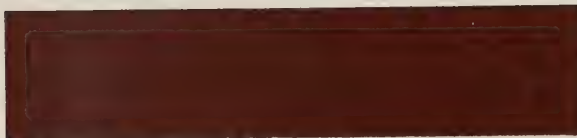
No. 90—NATURAL BLACK



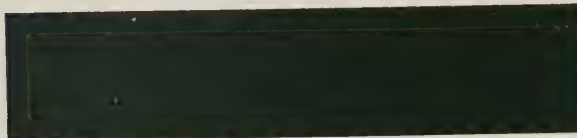
No. 70—BROWN



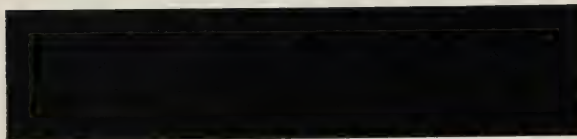
No. 60—GREEN



No. 50—RED



No. 61—OLIVE GREEN



No. 91—CARBON BLACK

## CARBON PAINTS

also

400 Black  
915 Hand  
Rail Black

Class  
No. 7

## GALVARCO PORTLAND CEMENT PAINT

(For Galvanized Iron)

Class  
No. 3



No. 10—LIGHT GRAY



No. 11—DARK GRAY

## IRON OXIDE PAINTS

for  
both  
Prime  
and  
Finish  
Coats  
Class  
No. 5



No. 567—MAROON



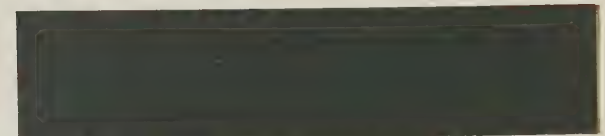
No. 568—DARK IRON OXIDE



No. 566—IRON OXIDE



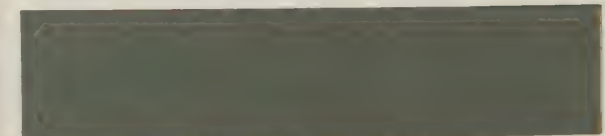
No. 533—MAINTENANCE RED



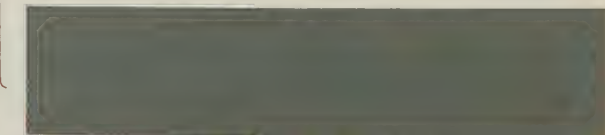
No. 412—BLUE LEAD



No. 415—SILVER GRAY



No. 413—LIGHT GRAY



No. 414—STEEL GRAY

BLUE  
LEAD  
BASE  
Class  
No. 2

LEAD  
and  
ZINC  
BASE  
also  
No. 416  
Class  
No. 6

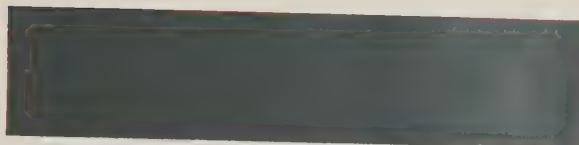


# COLOR CHART

SEE SPECIFICATION TABLE PAGES H10 AND 11

## ARCO METAL PAINTS IN COLOR (Continued)

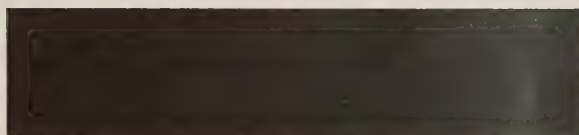
Class  
No. 6



No. 416—BATTLESHIP GRAY



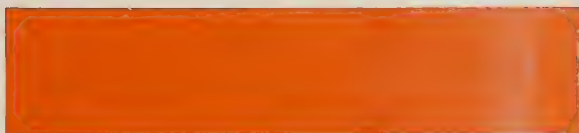
No. 605—CHROME GREEN



No. 575—RED LEAD MOISTURE PROOF

## ARCO METAL PRIMERS

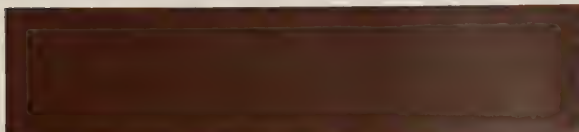
Class  
No. 1



No. 532—RED LEAD No. 592—RED LEAD PRIMER  
No. 570—LIQUIDIZED RED LEAD



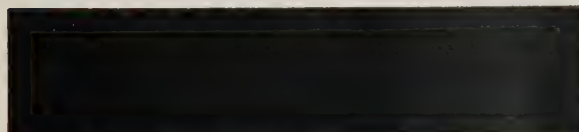
No. 390—CHROMATE PRIMER  
No. 395—ARCROME PRIMER



No. 531—RED LEAD GRAPHITE PRIMER

STACK  
PAINT

Class  
No. 8



No. 92—STACK BLACK  
Also No. 95—HOT SURFACE BLACK

## ARCO ASPHALTUM PAINTS

Class  
No. 9

No. 932—GILSONITE

No. 1—ASPHALTUM

ARCO B ASPHALTUM

INSIDE WATER TANK BLACK

## ARCO ALUMINUM PAINTS

Class  
No. 10

No. 4112—SILVERAY

No. 8117—DIFFUSED ALUMINUM

No. 8019—ARCO ALUMINUM

No. 470—ALUMINUM PRIMER

No. 472—ARCO ALUMINUM UNDERCOAT

No. 462—ARCOLUM (Alkali Resisting)

No. 460—HIGH HEAT ALUMINUM

No. 457—ASPHALT ALUMINUM

(See Aluminum Paint Book—Section A)

## ACID RESISTING PAINTS

(See Detailed Data, Page H7)

## ARCO TINNERS PAINTS

ARCO TINNERS RED

IMPERIAL TINNERS RED

IMPERIAL TINNERS MAROON

IMPERIAL TINNERS GREEN



# SPECIFICATION TABLE

See Color Cards, Pages H8 and 9

See Descriptive Data, Pages 4, 5, 6 and 7

TYPE OF SURFACE STRUCTURE OR EQUIPMENT	PRIMING COAT		INTERMEDIATE		FINISH	
	Paint	Class No.	Paint	Class No.	Paint	Class No.
<b>BUILDINGS</b>						
Structural Steel Framework	70	4	50	4	90	4
Note—For colors as finish coat see metal colors, Class 6.	390	1	50	4	90	4
See also, Iron Oxide Paints Class 5, Aluminum Class 10.	531	1	50	4	90	4
<b>BUILDINGS, Metal Clad</b>						
Corrugated or Plain Sheets	70	4	50	4	90	4
Note—For light colors see Metal Colors Class 6. Also	50	4	70	4	61	4
blue lead Class 2, and Iron Oxide Paints, Class 5.	70	4	50	4	566	5
<b>BRIDGES</b>						
Steel Bridges, Trestles and Steel Structures Exposed to Weather	395	1	50	4	90	4
Note—For colors, intermediate and finish, see Metal Colors Class 6. Also Blue Lead Class 2, Aluminum Paints, Class 10.	531	1	50	4	90	4
	532	1	70	4	90	4
<b>BOILER FRONTS</b>						
Note—Arco High Heat Aluminum Paint No. 460 recommended for hot surfaces in excess of 450 degrees F.					95	8
<b>CRANES</b>						
And Heavy Outdoor Equipment	70	4			90	4
Note—See also Metal Colors Class 6, and Aluminum Paints, Class 10.	70	4			61	4
<b>DOORS—Metal</b>						
Interior and Exterior Exposure	412	2			413	6
For Galvanized Doors see Galvarco, Class 3.	470	10			8117	10
<b>DOORS—Fire Doors</b>						
Use No. 525 Fire Red Finish Coat						
<b>FIRE ESCAPES</b>						
	70	4			91	7
	395	1			90	4
<b>FENCES—Metal</b>						
	50	4			90	4
	70	4			60	4
<b>FUME EXPOSURE</b>						
Acid Fume Exposure—See Data on Acid						
Resisting Paints Page 8						
<b>GALVANIZED METAL</b>						
Note—Galvarco, Class 3 can be used as priming and finish coats, or use other type finish coat in color selected.	10	3				
<b>GRAIN ELEVATORS—Steel</b>						
See also Arco Aluminum Paints, Class 10.	395	1			90	4
	412	2			413	6
	915	7			915	7
<b>HAND RAILS</b>						
	70	4			61	4
<b>POLES—Steel</b>						
	70	4			605	6
	70	4			413	6



## SPECIFICATION TABLE

See Color Cards, Pages H8 and 9

See Descriptive Data, Pages 4, 5, 6 and 7

TYPE OF SURFACE STRUCTURE OR EQUIPMENT	PRIMING COAT		INTERMEDIATE		FINISH	
	Paint	Class No.	Paint	Class No.	Paint	Class No.
<b>PIPING</b>						
Exterior Painting Above Ground	70	4	50	4	90	4
	395	1	50	4	90	4
Exterior Painting—Buried Piping	531	1	575	6	932	9
	532	1	932	9	932	9
Note—See also Arco Save-a-Line Pipe Coating for buried Piping.						
Piping and Conduits in Subway and Tunnels exposed to water and excessive moisture	570	1	570	1	575	6
	570	1	932	9	932	9
<b>PENSTOCKS—Steel</b>						
Interior Painting	570	1	575	6	570	1
	570	1	932	9	932	9
Exterior Painting Above Ground	70	4	50	4	90	4
Exterior Painting Buried Penstocks	531	1	575	6	932	9
	531	1	932	9	932	9
<b>ROOFS—Metal</b>						
Note—See also Iron Oxide Paints Class 5, Metal Colors Class 6. For Bituminous Fibered Coating use Arco Top and Arco Sealit for Metal and Composition Roofs. See Roof Coating Folder.						
<b>SASH—Steel</b>						
	395	1	50	4	61	4
See also Metal Colors Class 6, and Iron Oxide, Class 5.	532	1	50	4	60	4
<b>STACKS—Steel</b>						
	70	4			92	8
	70	4			95	8
	575	6			575	6
<b>SPRINKLER PIPES</b>						
If Red required use No. 525 Fire Red						
<b>TANKS—Oil Storage</b>						
	395	1			8117	10
See also Metal Colors, Class 6.	532	1			4112	10
<b>TANKS—Water—Standpipes</b>						
Interior Painting	532	1	932	9	932	9
Exterior Painting	70	4	50	4	90	4
See also Metal Colors Class 6, and Aluminum Paints Class 10.						
<b>TANKS—Buried</b>						
See "Piping Buried."						



# INSTRUCTIONS FOR APPLICATION

## PREPARATION OF SURFACE

Surfaces should be clean and dry and free from rust, scale, grease and foreign matter before paint is applied.

## APPLICATION OF PAINT

Paint should not be applied in wet weather or in temperatures, at or near freezing point. It is important that surfaces be dry that no moisture be sealed underneath the paint film.

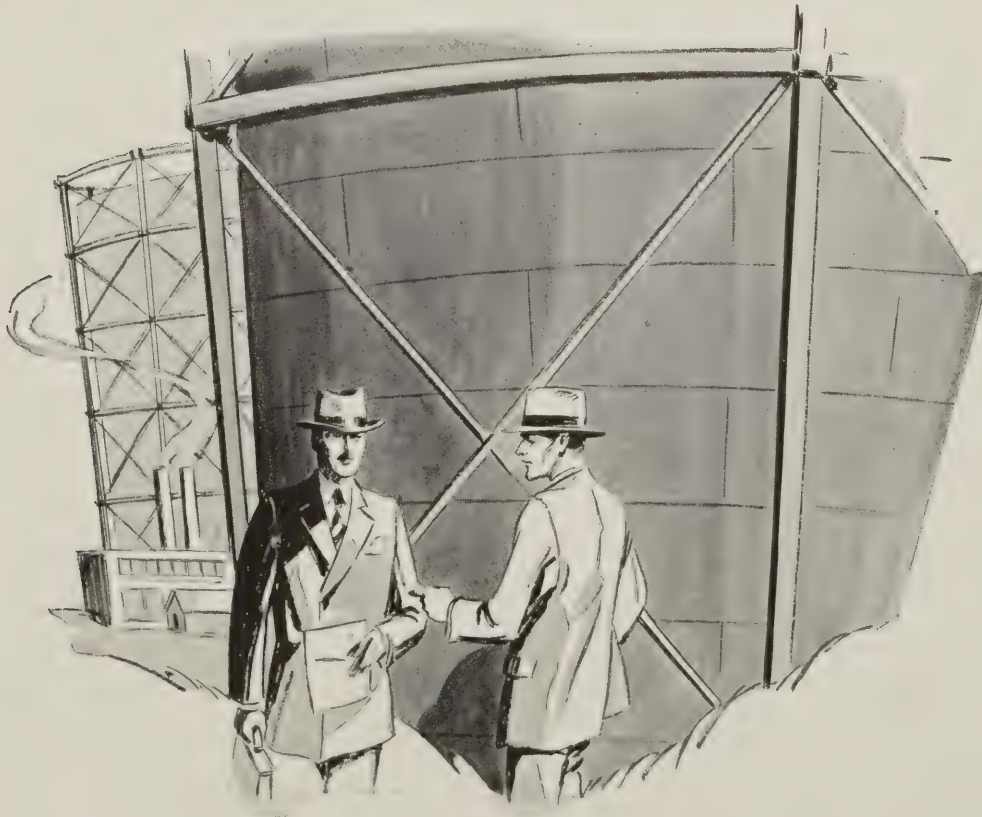
Paint should be thoroughly stirred prior to use and occasionally during progress of paint job to be certain it is maintained in uniform consistency.

## DRYING TIME

Under normal conditions 24 to 48 hours drying time is sufficient.

## THINNING

Arco Metal Paints are supplied ready mixed for application and generally require no thinning. When slight thinning is found advisable, use equal parts of linseed oil and turpentine substitute as thinner.





## COVERING CAPACITY TABLE

Covering capacity is dependent upon smoothness of surface, method of application, weather conditions, etc. Arco Metal Protective Paints should be well brushed out to smooth uniform film. Due to high efficiency of grinding with synchronized time study plan Arco paints are not excelled in covering capacity.

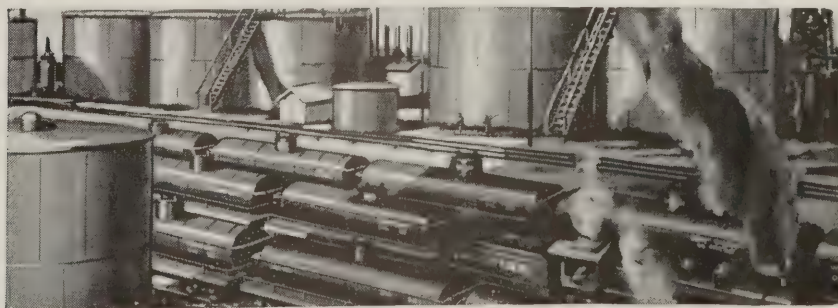
The following table shows conservative approximate covering capacity per gallon per coat. This estimate is made in consideration of practical conditions on the job, rather than theoretical high rating for covering capacity.

<b>Class 1</b>	Arco Red Lead and Lead Chromate Primers	450-500 Sq. Ft. Per Gallon
<b>Class 2</b>	Arco Blue Lead	450-500 Sq. Ft. Per Gallon
<b>Class 3</b>	Galvarco (Portland Cement Paint)	300-350 Sq. Ft. Per Gallon
<b>Class 4</b>	Arco Graphite Paints	500 Sq. Ft. Per Gallon
<b>Class 5</b>	Arco Iron Oxide Paints	500 Sq. Ft. Per Gallon
<b>Class 6</b>	Arco Metal Paints in Color	500 Sq. Ft. Per Gallon
<b>Class 7</b>	Arco Carbon Paints	600-700 Sq. Ft. Per Gallon
<b>Class 8</b>	Arco Stack Paints	
	No. 92 Stack Black	500 Sq. Ft. Per Gallon
	No. 95 Hot Surface Black	300 Sq. Ft. Per Gallon
<b>Class 9</b>	Arco Asphaltum Paints	300 Sq. Ft. Per Gallon
<b>Class 10</b>	Arco Aluminum Paints and Primers	
	No. 470 and 472 Aluminum Priming Coats	500 Sq. Ft. Per Gallon
	Aluminum Paints	550-600 Sq. Ft. Per Gallon

## NEW CONSTRUCTION—COVERAGE PER GALLON ON STRUCTURAL STEEL

Paint with covering capacity of approximately 500 square feet per gallon should be estimated as follows:

Structural Steel—light members	1 to 2 tons per gallon per coat
Structural Steel—medium sized members	2 to 3 tons per gallon per coat
Structural Steel—heavy members	4 tons per gallon per coat





## PARTIAL LIST OF USERS OF ARCO METAL PROTECTIVE PAINTS

American Bridge Co., Pittsburgh, Pa.	Manchester Gas Co., Manchester, N. H.
Carbide & Carbon Chemical Corp., So. Charleston, W. Va.	Chesapeake & Ohio Railway Co., Cleveland, Ohio.
Consolidation Coal Co., Fairmount, W. Va.	Erie Railroad Co., Cleveland, Ohio.
Pepperell Mfg. Co., Boston, Mass.	Pittsburgh Bridge & Iron Co., Rochester, Pa.
Ternstedt Mfg. Co., Detroit, Mich.	Universal Steel Co., Cleveland, Ohio.
Northern States Power Co., Minneapolis, Minn.	Indiana State Farm, Greencastle, Ind.
Chrysler Corp., Detroit, Mich.	Ingalls Stone Co., Bedford, Ind.
Pennsylvania Dixie Cement Corp., Nazareth, Pa.	Lehigh Portland Cement Co., Allentown, Pa.
Freeport Sulphur Co., New Orleans, La.	Terre Haute Boiler Works, Terre Haute, Ind.
Godchaux Sugars Inc., New Orleans, La.	Reading-Pratt & Cady Co. Inc., Reading, Pa.
New Orleans Public Service Inc., New Orleans, La.	Standard Steel Works Co., Burnham, Pa.
Board of Education, Detroit, Mich.	Mt. Airy Canning Co., Preston, Md.
Brooklyn Borough Gas Co., Brooklyn, N. Y.	Savage Mfg. Co., Savage, Md.
Kings County Lighening Co., Brooklyn, N. Y.	Griswold-Walker-Bateman Co., Chicago, Ill.
Seldner & Enequist Inc., Brooklyn, N. Y.	Stanton Operating Co., Scranton, Pa.
American Agricultural Chemical Co., Buffalo, N. Y.	Wilkes Barre Railway Corp., Wilkes Barre, Pa.
American Radiator Co., Buffalo, N. Y.	Marion Steam Shovel Co., Marion, Ohio.
Bovaird & Seyfang Mfg. Co., Bradford, Pa.	Union County Commissioners, Marysville, Ohio.
Peerless White Line Co., St. Louis, Mo.	Chariton County, Keytesville, Mo.
Deepwater Operating Co., Penns Grove, N. J.	Dauer Products Corp., Chattanooga, Tenn.
Consumers Power Co., Jackson, Mich.	Carolina Cotton & Woolen Mills Co., Spray, N. C.
National Fruit Product Co., Winchester, Va.	T. J. Finch & Sons, Thomasville, N. C.
Jersey Central Power & Light Co., Asbury Park, N. J.	Klumac Cotton Mills, Salisbury, N. C.
Public Service Electric & Gas Co., Newark, N. J.	Pee Dee Mfg. Co., Rockingham, N. C.
Mississippi Valley Structural Steel Co., Decatur, Ill.	Proximity Mfg. Co., Greensboro, N. C.
Wabash Railway Co., Chicago, Ill.	H. Weil & Bros., Goldsboro, N. C.
National Chair Co., St. Louis, Mo.	Wehrle Co., Newark, Ohio.
St. Louis Fixture & Show Case Co., St. Louis, Mo.	H. J. Heinz Co., Pittsburgh, Pa.
	Westinghouse Air Brake Co., Wilmerding, Pa.



## ARCO GAS HOLDER PAINTS



Arco Gas Holder Paints are formulated on the basis of high quality which is the first requisite for abnormal conditions of service. Secondly, they are formulated to insure water resistant features, but retaining maximum weather resisting value. Resistance to water, of course, is not a factor in protection of waterless or dry type holder.

A protective paint with a varnish vehicle or high percentage of varnish in the vehicle, does not provide adequate service for gas holders. Such a

vehicle is of necessity "short" with a relatively low percentage of oil and gum solids. Paints of this type have water resisting value but they lack durability of film to stand up under years of weather exposure.

Arco Gas Holder Paints carry inhibitive pigments. Manufacturing control with proper grind for each type of pigment insures full body and intimate mixture of pigment and vehicle content.

The vehicle in Arco Gas Holder Paints combines weather resisting oils of highest type with correct percentage of treated oils for water resistance. As a result, these paints carry a high percentage of solids. The paint film has high water-repellant features, but in addition, the long life, durable, elastic film to stand up under years of weather exposure and gas holder service.

Arco Gas Holder Paints for intermediate and finish coats are supplied in a standard range of colors, universally recognized for utmost durability. No. 660 Green is frequently employed for color effect on guide frames.

From the standpoint of quality in formulation and suitability to meet existing service requirements Arco Gas Holder Paints are not excelled.

## ARCO ALUMINUM GAS HOLDER PAINTS

When aluminum is preferred for gas holder protection use No. 8117 Diffused Aluminum Paint. The type of aluminum powder employed in this formula insures maximum brilliance and smoothness to retard dirt accumulation. The vehicle exceeds the standard requirements for solids and Kauri Re-

duction Test. The film has excellent water-repellant features combined with durability for long service under weather exposure. It is an outstanding product in the field of aluminum paints.

### Covering Capacity

On smooth, clean metal Arco Gas Holder Paints cover approximately 500 square feet per gallon, per coat.





# INSTRUCTIONS FOR USE

## PREPARATION OF SURFACE

Metal surfaces should be free from rust, loose paint, film, grease and other foreign matter.

## APPLICATION

Paint should not be applied in wet weather or when temperatures are near freezing point. It is important that the surface be dry that no moisture may be sealed underneath the paint film. Gas Holder Paints should be applied in thin well-brushed-out coat. Care should be exercised that paint is not permitted to accumulate or load up in heavy film around rivet heads.

## DRYING TIME

Under normal drying conditions 24 hours between coats is sufficient. When it is possible to hold lifts out of water for slightly longer periods for further curing of paint it is an advantage to do so.

## THINNING

Arco Gas Holder Paints are supplied ready mixed for application and under normal conditions require no thinning. When slight thinning is found advisable use equal parts Linseed Oil and Turpentine Substitute.

## COLOR SHADES

The table following shows shades of Arco Gas Holder Paints which correspond with those of other lines which appear in this book:

### SEE

No. 550	Red .....	No. 50
No. 770	Brown .....	No. 70
No. 906	Natural Black .....	No. 90
No. 545	Maroon .....	No. 567
No. 660	Green .....	No. 60
No. 430	Light Gray .....	No. 413
No. 431	Steel Gray .....	No. 414
No. 433	Battleship Gray .....	No. 416
No. 432	Blue Lead .....	No. 412
No. 780	Sandstone .....	
No. 520	Red Lead Primer .....	No. 532
No. 315	Lead Chromate Primer .....	No. 390















# THE ARCO COMPANY

PAINTS - VARNISHES - ENAMELS - LACQUERS

CLEVELAND - LOS ANGELES

BRANCHES IN THE PRINCIPAL CITIES ALL OVER THE WORLD

